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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/653,181 | 08/31/2000 | Simona Cohen | 6727/0H608 | 4228 |

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EXAMINER

PARK, CHAN S

ART UNIT

PAPER NUMBER

2622

DATE MAILED: 05/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/653,181

Applicant(s)

COHEN, SIMONA

Examiner

CHAN S PARK

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6, 7, 9-11, 20-23, 25, 26, 28-30 and 39 are rejected under 35

U.S.C. 102(e) as being anticipated by Scott U.S. Patent No. 6,339,481.

1. With respect to claim 1, Scott teaches a method for facsimile transmission over a packet network (fig. 4), comprising:

establishing a facsimile call between first (originating FTE 10-1) and second facsimile terminals (destination FTE 10-2) in accordance with a facsimile protocol, using a facsimile gateway (destination FIU 14-2) to convey communications between the terminals over the packet network (col. 9, lines 31-32);

awaiting arrival at the gateway of a signal conveyed over the packet network from the first terminal, to be transmitted from the gateway to the second terminal as provided by the protocol (col. 7, lines 53-61 & col. 8, lines 28-41);

transmitting a fill page from the gateway to the second terminal if the signal does not arrive within a time limit determined in accordance with the protocol (col. 7, lines 53-61 & col. 8, lines 28-41); and

receiving the signal at the gateway and transmitting the signal from the gateway to the second terminal after transmitting the fill page (col. 7, lines 53-61 & col. 8, lines 28-41).

2. With respect to claim 2, Scott teaches a method according to claim 1, wherein the facsimile protocol comprises a T.30 protocol of the International Telecommunications Union (ITU-T) (col. 1, lines 14-25).

3. With respect to claim 3, Scott teaches a method according to claim 2, wherein the packet network operates in accordance with an Internet Protocol (IP) (col. 4, lines 1-4).

4. With respect to claim 4, Scott teaches a method according to claim 3, wherein establishing the facsimile call comprises establishing a real-time fax over IP connection (col. 1, lines 8-11 & col. 11, lines 36-37), and wherein transmitting the fill page comprises initiating a session fax mode of communication in response to a network delay causing the signal to fail to arrive within the time limit (col. 7, lines 53-61 & col. 8, lines 28-41).

5. With respect to claim 6, Scott teaches a method according to claim 1, wherein the first terminal comprises a sending terminal, and the second terminal comprises a receiving terminal, and wherein awaiting the arrival of the signal comprises awaiting transmission of a complete page of facsimile data from the sending terminal (col. 9, lines 7-18 & fig. 5 S5-1&2).

6. With respect to claim 7, Scott teaches a method according to claim 6, wherein the gateway comprises a receiving gateway linked to the receiving terminal by a

telephone line (col. 1, lines 14-16 & col. 4, lines 18-28), and wherein awaiting the transmission of the complete page comprises awaiting the transmission of the complete page by a sending gateway (originating FIU 14-1 in fig. 4) linked to the sending terminal.

7. With respect to claim 9, Scott teaches a method according to claim 1, wherein the first terminal, and the second terminal comprises a sending terminal, which sends at least one page of facsimile data to the receiving terminal over the packet network using the facsimile gateway during the facsimile call, and wherein awaiting the arrival of the signal comprises awaiting a notification of delivery of the at least one page to the receiving terminal (col. 2, lines 26-41 & figs. 2 and 4).

8. With respect to claim 10, Scott teaches a method according to claim 9, wherein transmitting the fill page comprises instructing the sending terminal to perform a line turnaround in order to receive the fill page (col. 2, lines 26-41 & fig. 2).

9. With respect to claim 11, Scott teaches a method according to claim 9, wherein the at least one page of facsimile data comprises first and second pages of facsimile data (the second to last page and the last page), and comprising transmitting a confirmation signal (S16) from the gateway(originating FIU 14-1) to the sending terminal after receiving the first page from the sending terminal at the gateway, responsive to which the sending terminal sends the second page to the gateway (step after S16 "page data starts"), before receiving a confirmation packet at the gateway over the network indicating that the first page was received at the receiving terminal (fig. 4).

10. With respect to claim 20, arguments analogous to those presented for claim 1, are applicable.

11. With respect to claim 21, arguments analogous to those presented for claim 2, are applicable.

12. With respect to claim 22, arguments analogous to those presented for claim 3, are applicable.

13. With respect to claim 23, arguments analogous to those presented for claim 4, are applicable.

14. With respect to claim 25, arguments analogous to those presented for claim 6, are applicable.

15. With respect to claim 26, arguments analogous to those presented for claim 7, are applicable.

16. With respect to claim 28, arguments analogous to those presented for claim 9, are applicable.

17. With respect to claim 29, arguments analogous to those presented for claim 10, are applicable.

18. With respect to claim 30, arguments analogous to those presented for claim 11, are applicable.

19. With respect to claim 39, arguments analogous to those presented for claim 1, are applicable.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scott.

20. With respect to claim 5, Scott teaches a method according to claim 4, but Scott does not teach expressly that an ITU-T T.38 protocol is used in the real-time fax over IP connection.

However, Examiner takes Official Notice that establishing the connection in accordance with an ITU-T T.38 protocol in the real-time fax over IP connection is well known in the Internet and network facsimile art. Examiner further provides U.S. Patent No. 6,381,038 of Endo as an example to support such an argument.

It would have been obvious at the time the invention was made to one of ordinary skill in the art to use an ITU-T T.38 protocol in the real-time fax over IP connection in the Scott facsimile device since Examiner takes Official Notice that establishing the connection in accordance with an ITU-T T.38 protocol in the real-time fax over IP connection is well known in the Internet and network facsimile art.

21. With respect to claim 24, arguments analogous to those presented for claim 5, are applicable.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scott as applied to claim 1 above, and further in view of Endo U.S. Patent No. 6,381,038.

22. With respect to claim 8, Scott teaches a method according to claim 1, but Scott does not teach expressly the method comprising awaiting arrival of a training message indicative of capabilities of the first terminal and conveyed over the packet network from the first terminal, and if the training message does not arrive within a training time limit determined in accordance with the protocol, initiating a default training sequence between the gateway and the second terminal, substantially independently of the capabilities of the first terminal.

Endo, on the other hand, teaches a method for facsimile transmission over a packet network (fig. 15), comprising:

establishing a facsimile call between first (calling facsimile machine 113) and second facsimile terminals (called facsimile machine 123) in accordance with a facsimile protocol, using a facsimile gateway (called-side gateway 223) to convey communications between the terminals over the packet network (col. 26, lines 25-51); and

awaiting arrival at the gateway of a signal conveyed over the packet network from the first terminal, to be transmitted from the gateway to the second terminal as provided by the protocol (col. 26, lines 25-51).

Additionally, Endo teaches a method comprising awaiting arrival of a training message indicative of capabilities of the first terminal and conveyed over the packet network from the first terminal, and if the training message does not arrive within a

training time limit determined in accordance with the protocol, initiating a default training sequence (RNR and RR) between the gateway and the second terminal, substantially independently of the capabilities of the first terminal (col. 30, lines 35-44).

Scott and Endo are analogous art because they are from the same field of endeavor that is network facsimile communication art using gateway devices.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to implement the method of initiating a default training sequence between the gateway and the second terminal of Endo into the Internet facsimile device having the fill page method of Scott.

The suggestion/motivation for doing so would have been to keep the connection alive and active even when there is a delay between the two gateways.

Therefore, it would have been obvious to combine Scott and Endo to obtain the invention as specified in claim 8.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Scott as applied to claim 20 above, and further in view of Endo.

23. With respect to claim 27, arguments analogous to those presented for claim 8, are applicable.

Claims 12-19, 31-38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chimura et al. U.S. Patent No. 6,335,803 (hereinafter Chimura) in view of Scott.

24. With respect to claim 12, Chimura teaches a method of facsimile transmission over a packet network, comprising:

establishing a facsimile call between a sending terminal (FAX 1a) and a facsimile gateway (FAX communication apparatus 10A) in communication with the packet network (LAN 4 in fig. 5);

receiving a first page of facsimile data from the sending terminal at the gateway (col. 8, lines 38-41 & S92);

conveying the first page of the facsimile data from the gateway over the packet network to a receiving terminal (col. 8, lines 44-49 & S94);

transmitting a confirmation signal from the gateway to the sending terminal after receiving the first page at the gateway (col. 8, line 65 – col. 9, line 9);

responsive to transmitting the confirmation signal, receiving a second page of facsimile data from the sending terminal (col. 9, lines 5-9);

conveying the second page of the facsimile data over the packet network to the receiving terminal (col. 9, lines 5-9);

awaiting arrival at the gateway of the first confirmation packet and of a second confirmation packet over the network indicating that the second page was received at the receiving terminal; and

responsive to the first and second confirmation packets, sending a notification from the gateway to the sending terminal before terminating the facsimile call that the pages were delivered to the receiving terminal (col. 9, lines 25-37).

Chimura does not teach expressly a method of transmitting a confirmation signal from the gateway to the sending terminal after receiving the first page at the gateway, *without having waited to receive a first confirmation packet over the network indicating that the first page was received at the receiving terminal.*

Scott, on the other hand, teaches a method of facsimile transmission over a packet network (network in fig. 4), comprising:

establishing a facsimile call between a sending terminal (originating FTE 10-1) and a facsimile gateway (originating FIU 14-1) in communication with the packet network;

receiving a first page of facsimile data from the sending terminal at the gateway (S14);

conveying the first page of the facsimile data from the gateway over the packet network to a receiving terminal (S14 "page data packets start");

transmitting a confirmation signal from the gateway to the sending terminal after receiving the first page at the gateway, *without having waited to receive a first confirmation packet over the network indicating that the first page was received at the receiving terminal* (S16);

responsive to transmitting the confirmation signal, receiving a second page of facsimile data from the sending terminal (step after S16 "page data starts"); and

conveying the second page of the facsimile data over the packet network to the receiving terminal (step after S16 "page data packets start").

Chimura and Scott are analogous art because they are from the same field of endeavor that is the facsimile packet transmission over network.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to implement the method of receiving confirmation signal from the gateway without having waited to receive a first confirmation packet over the network indicating that the first page was received at the receiving terminal of Scott into the facsimile system of Chimura.

The suggestion/motivation for doing so would have been to improve over all transmission time by completing the transmission between the sender and the gateway first because the Scott method prevents the network delay or congestion from affecting the transmission between the sender and the gateway.

Therefore, it would have been obvious to combine Chimura and Scott to obtain the invention as specified in claim 12.

25. With respect to claim 13, Scott teaches a method of establishing the facsimile call comprising establishing the call in accordance with a T.30 protocol of the International Telecommunications Union (ITU-T) (col. 1, lines 14-25).

26. With respect to claim 14, Scott teaches that the packet network operates in accordance with an Internet Protocol (IP) (col. 4, lines 1-4).

27. With respect to claim 15, Scott teaches a method of establishing the facsimile call comprises initiating a real-time fax over IP connection (col. 1, lines 8-11 & col. 11, lines 36-37), and wherein sending the notification comprises completing the call in a session fax mode (col. 7, lines 53-61 & col. 8, lines 28-41).

28. With respect to claim 16, arguments analogous to those presented for claim 5, are applicable.

29. With respect to claim 17, Scott teaches a method of performing a line turnaround and sending at least one fill page from the gateway to the sending terminal when one or more of the first and second confirmation packets do not arrive at the gateway within a predetermined time limit (col. 2, lines 26-41 & fig. 2).

30. With respect to claim 18, Scott teaches that the method of establishing the facsimile call comprises establishing the call over a telephone line between the sending terminal and the facsimile gateway (col. 1, lines 14-16 & col. 4, lines 18-28).

31. With respect to claim 19, both Scott and Chimura teach that the gateway comprises a sending gateway, and wherein conveying the first and second pages of the facsimile data comprises: conveying the pages from the sending gateway over the packet network to a receiving gateway (facsimile communication apparatus 10B of Chimura and destination FIU 14-2 of Scott), which transmits the pages to the receiving terminal.

32. With respect to claim 31, arguments analogous to those presented for claim 12, are applicable.

33. With respect to claim 32, arguments analogous to those presented for claim 13, are applicable.

34. With respect to claim 33, arguments analogous to those presented for claim 14, are applicable.

35. With respect to claim 34, arguments analogous to those presented for claim 15, are applicable.

36. With respect to claim 35, arguments analogous to those presented for claim 5, are applicable.

37. With respect to claim 36, arguments analogous to those presented for claim 17, are applicable.

38. With respect to claim 37, arguments analogous to those presented for claim 18, are applicable.

39. With respect to claim 38, arguments analogous to those presented for claim 19, are applicable.

40. With respect to claim 40, arguments analogous to those presented for claim 12, are applicable.

Conclusion

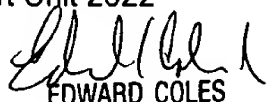
Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAN S PARK whose telephone number is (703) 305-2448. The examiner can normally be reached on M-F 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on (703) 305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

csp
May 12, 2004

Chan S. Park
Examiner
Art Unit 2622


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SUPERVISORY PATENT EXAMINER
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